



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

AUG 15 2016

REPLY TO THE ATTENTION OF:

**CERTIFIED MAIL #7009 1680 0000 7672 1936**  
**RETURN RECEIPT REQUESTED**

Ms. Christine Freeman  
Environmental Protection Manager  
Crane Naval Surface Warfare Center  
300 Highway 361  
Crane, Indiana 47522

Re: Notice of Violation  
RCRA Compliance Evaluation Inspection  
EPA ID No: IN5 170 023 498

Dear Ms. Freeman:

On May 6 through 8, 2014 representatives of the U.S. Environmental Protection Agency conducted a multimedia inspection of the Crane Naval Surface Warfare Center (CNSWC) facility located in Crane, Indiana. The purpose of the inspection was to evaluate CNSWC's compliance with various environmental regulations. This letter is in regards to CNSWC's compliance with its hazardous waste treatment and storage permit, and certain provisions of the Resource Conservation and Recovery Act (RCRA); specifically, those regulations related to the generation, treatment and storage of hazardous waste. We have enclosed a copy of our inspection report for your reference.

Based on information provided by CNSWC personnel, a review of records and the inspector's personal observations while inspecting the facility, EPA has determined that CNSWC is engaged in the storage of hazardous waste beyond that authorized by CNSWC's hazardous waste storage permit, and is in violation of certain requirements of the Indiana Administrative Code (IAC) and the U.S. Code of Federal Regulations (CFR). To be eligible for the exemption from the requirement to obtain a hazardous waste storage permit covering CNSWC's additional activities, CNSWC must be in compliance with the conditions of 40 CFR § 262.34(a) and (c), which are incorporated by reference into the Indiana regulations at 39 IAC § 3.1-7-1. We find that



CNSWC was in noncompliance with the following conditions for a hazardous waste storage permit exemption, and in violation of the following requirements:

1. A generator must determine whether its waste is hazardous. See, 329 IAC 3.1-7-1 [40 CFR 262.11].

At the time of the May 6 through 8, 2014 inspection, CNSWC had not made the required waste determinations on 15 containers of waste located outdoors near the respiratory area. CNSWC, therefore, violated the hazardous waste determination requirement.

2. To avoid the need for a hazardous waste storage permit, a large quantity generator using containers to accumulate hazardous waste at or near any point of generation where wastes initially accumulate must keep containers closed at all times, unless waste is being added or removed. See, 329 IAC § 3.1-7-1 and 3.1-10-1 [40 CFR §§ 262.34(c)(1)(i) and 265.173(a)].

At the time of the inspection, CNSWC had one open 55-gallon satellite accumulation drum of hazardous waste filters with zinc in building 3064. CNSWC, therefore, failed to comply with the above condition for a hazardous waste storage permit exemption, and violated the container storage requirement.

3. A generator of used oil must label or mark containers and above ground tanks of used oil clearly with the words "Used Oil." See, 329 IAC § 13-4-3 [40 CFR § 279.22 (c)(1)].

At the time of the inspection, CNSWC had one 55-gallon drum, a 3-gallon container of used oil, and one 55-gallon drum of used crushed oil filters that were not marked or labeled with the words "used oil." However, the 55-gallon drum of used crushed filters and 3-gallon container of used oil were labeled during the inspection. Based on that action, CNSWC has abated two of three used oil violations of 329 IAC § 13-4-3 [40 CFR § 279.22 (c) (1)].

4. A large quantity generator that accumulates hazardous waste on-site and does not meet the conditions for a permit exemption of 329 IAC § 3.1-7-1[40 CFR § 262.34] is an operator of a hazardous waste storage facility, and is required to modify its hazardous waste storage permit to cover those additional activities. See, 329 IAC § 3.1-7-1[40 CFR § 262.34(a)]. CNSWC did not modify its hazardous waste storage permit to address storage in building 3064. CNSWC's failure to apply for and obtain

a hazardous waste storage permit for that activity violated the permitting requirements of 329 IAC 3.1-13-1 [40 CFR §270.1(c)].

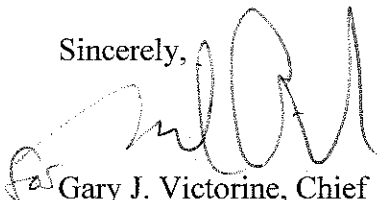
At this time, EPA is not requiring CNSWC to modify its hazardous waste treatment storage permit, so long as it immediately establishes compliance with the conditions for a permit exemption cited above.

According to Section 3008(a) of the RCRA, EPA may issue an order assessing a civil penalty for any past or current violation requiring compliance immediately or within a specified time period. Although this letter is not such an order, you are hereby requested to submit a response in writing to this office no later than thirty (30) days after receipt of this letter documenting the actions, if any, which have been taken since the inspections to establish compliance with the above conditions and requirements.

You should submit your response to Sheila Burrus, U.S. Environmental Protection Agency, Region 5, 77 W. Jackson Boulevard, LR-8J, Chicago, Illinois 60604.

If you have any questions regarding this letter, please contact Ms. Burrus, of my staff, at (312) 886-3587.

Sincerely,

  
Gary J. Victorine, Chief  
RCRA Branch

Enclosure

cc: Nancy Johnston ([njohnston@idem.in.gov](mailto:njohnston@idem.in.gov))



bcc: Kris Vezner, C-14J



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 W. JACKSON BOULEVARD  
CHICAGO, IL 60604

COMPLIANCE EVALUATION INSPECTION REPORT

**INSTALLATION NAME:** Crane Naval Surface Warfare Center


**U.S. EPA ID. No.:** IN5 170 023 498

**LOCATION ADDRESS:** 300 Highway 361  
Crane, Indiana 47522

**DATE OF INSPECTION:** May 6-8, 2014


**U.S. EPA INSPECTOR:** Sheila Burrus, RCRA Hazardous Waste  
Lynne Roberts, Project Manager/Multimedia Inspector  
Michael Lukowich, Clean Water Act  
Michael Prescott EPA Contractor

**PREPARED BY:**

  
\_\_\_\_\_  
Sheila Burrus  
Environmental Protection Specialist

6/23/14  
\_\_\_\_\_  
Date:

**REVIEWED BY:**

  
\_\_\_\_\_  
Michael Cunningham, Chief  
Compliance Section 1  
RCRA Branch  
Land and Chemicals Division

7/7/14  
\_\_\_\_\_  
Date:



### **Purpose of Inspection**

The purpose of the RCRA portion of the multimedia inspection was to conduct an un-announced compliance evaluation inspection (CEI) at Crane Naval Surface Warfare Center (CNSWC), located at 300 Highway 361, Crane, Indiana, to evaluate CNSWC's compliance with certain provisions of the Resource Conservation and Recovery Act (RCRA); specifically those regulations related to the management of hazardous waste.

The U.S. EPA OECA Small Business Resource Information Sheet, the U.S. EPA – Region 5 Pollution Prevention State Contact list, Illinois Waste Management Research Sustainable Solutions Brochure and the U.S. EPA Managing Used Oil Advice for Small Business brochure were given to C. Patrick Overton, Environmental Protection Specialist of CNSWC by the inspector, at the time of the inspection.

**Participants:** Jim Riggins, Jared Cornelius, Pat Winchester, Christine Freeman, C. Patrick Overton, Jason Highite, Doug Johnson, Jim Butler, Brandy Ranard represented CNSWC. Keith Cordra and Sue Boch represented Indianapolis Department of Environmental Management. Sheila Burrus, Lynne Roberts, Mike Lukowich and Michael Prescott represented EPA Region 5.

### **Installation Description/Background**

Crane Naval Surface Warfare Center is operated by the Army and Navy. The Army is tasked with the production and renovation of conventional ammunition and related items; the performance of manufacturing, engineering, and product quality assurance to support production; and the storage, shipment and/or demilitarization and disposal of conventional ammunition and related components. The Navy is tasked with quality and responsive engineering, technical and material support to the Fleet for combat, subsystems, equipment and components; microelectronics technology, microwave components, electronic warfare, acoustic sensors test, electrochemical power systems and conventional warfare.

The following operating units are subject to RCRA permitting requirements: Central Storage Facility (CSF) buildings 2993, 3435, and ancillary exterior storage lot, Contained Detonation Chamber (CDC), Ammunition Peculiar Equipment (APE) 1236 Incinerator, Ammunition Burning Ground (ABG), Old Rifle Range (ORR), and Demolition Range (DR).

The Army is responsible for the permitted hazardous waste treatment units except the CSF which is operated by the Navy. Hazardous waste generated at various locations at CNSWC are temporary stored at satellite accumulation locations and less than 90-day hazardous waste storage areas, and then transported to the CSF.

The CSF buildings 2993, 3435, and ancillary exterior lot are used to store hazardous wastes generated at CNSWC. CSF buildings 2993 and 3435 are designed for the storage of liquid waste and wastes containing free standing liquids. The ancillary exterior storage lot is designed for storage of non-liquid wastes. The CSF consists of a segregated multi-bay hazardous waste container storage area.

The CDC is located in building 3339. The CDC is a system consisting of a chamber, an expansion tank, an air pollution control unit, a draft fan and an exhaust stack. The chamber is a large, vented, dual-walled steel vessel designed to control heat, pressure and shock waves from repeated detonations.

The APE 1236 Incinerator located in building 3343 is a rotary kiln system designed for thermal destruction of ammunition ranging from small arms through 20mm.

The following three operations are used for treatment of ammunitions: Opening Burning and Open Detonation (OB/OD), Ammunition Burning Ground, Old Rifle Range and Demolition Range.

CNSWC is situated on a 62,463-acre track of land in southwest Indiana. Crane employs approximately 3,750 people. Crane operates and maintains its own fire department.

The facility also generates used oil, universal waste, solid waste, construction/demolition debris and scrap metal.

CNSWC is a permitted treatment storage and disposal facility (TSDF). CNSWC's renewed permit was issued on May 23, 2013, and expires on June 12, 2018.

#### Hazardous Waste Storage

The CNSWC can store a total of 19,309 gallons of wastes which may contain free liquid in CSF buildings 2993 and 3435, and 106,920 gallons of non-liquid waste in the outside hazardous waste storage area.

Types of hazardous waste stored at CSF include acids (D002/D008), aerosols, off-spec and defective can (propellants)-D001, bases (D002/D007/D008), caustic cleaning waste (D002/D007/D008), cyanide bearing waste/plating waste (D002/D003/F006-F009), decontamination agent (D001/D002), grit blast residue (D006/D007/D008), incineration demil ash (D007-D009/D034), ash from open burning/open detonation operations (D008), halogenated solvents (F001/F002/D040/D028), metallic salt contaminated with waste/filtrate from sludge burning pans (D002/D004-D011/D035/D039), non-halogenated solvents (D001/F003/F005), oils/off-spec. fuel (D001/D005/D007/D008/D018), paint waste, including sludges, thinners, strippers, primers, and varnishes (F002/D001/D007/F003/F005/D008), plastic formulation, including waste and off-spec. (D001/D002/D003/F002), plating and coating including caustic cleaning solution wastes (F006/D002/D006/D007/D008/D010/F008), small arms range cleaning (D008), and spent carbon from wastewater containing explosives (K045/K046/D006-D009).

#### Opening Conference

The multi-media team arrived at CNSWC at 8:20 a.m. on May 6, 2014. Christine Freeman from CNSWC and Keith Cordia from IDEM came to the visitor station to escort us to CNSWC. At this time, the EPA multimedia team introduced themselves.

Ms. Freeman and Mr. Cordia, and the EPA multimedia team convened in a conference room where we were joined by Jim Riggins, Jared Cornelius, Patrick Winchester, C. Patrick Overton, Jason Hignite, Doug Johnson, Jim Butler and Brandy Ranard, all representing CNSWC except Sue Boch and Mr. Cordia who were representing IDEM. Ms. Roberts explained to representatives of CNSWC that the multimedia team would be conducting a CEI that included a visual site inspection and records review. Members from the multimedia team explained to the CNSWC staff what specific records were needed for each specific program, as well as, asked specific questions related to each program.

I asked Mr. Overton for a brief description of the type of work done at the facility and the types of wastes generated. Mr. Overton began to provide background and waste storage information about CNSWC which is included above in the installation description/background and waste storage sections of the report.

I asked Mr. Overton where CNSWC transports its used oil, universal waste, hazardous containerized waste, explosive waste and bulk waste. Mr. Overton indicated that waste lamps, used oil, hazardous containerized/bulk waste is sent to AEC Environmental, LLC located in Calvert City, KY. Explosive hazardous waste shipments are sent to EBV Explosives Environmental Company, Carthage, MO. Waste batteries are sent to Toxco, Inc. in Baltimore, OH.

I stated that CNSWC could claim any information gathered during the inspection as Confidential Business Information (CBI) including: verbal information, documents, and photographs. CNSWC representatives did not make a CBI claim on the information gathered during the inspection.

The multimedia team was taken to the Environmental Education building 3245 where we were provided with a briefing on the history of CNSWC by Mr. Riggins and Ms. Freeman before each program separated to conduct program specific CEIs.

#### **Records Review – May 6, 2014**

I began the records review portion of the inspection with the assistance of Mr. Overton. I informed Mr. Overton that I wanted to review hazardous waste manifests, land disposal restriction forms, waste analysis data, hazardous waste training records, biennial reports, the contingency plan and weekly inspection logs for the hazardous waste storage areas.

My observations are categorized below:

#### **Manifests**

I reviewed hazardous waste manifests for containerized waste (waste corrosive liquid/adhesives), explosive waste (waste cartridge for weapons), and bulk waste (hazardous waste liquid) for the years 2012 and 2013 and found them to be complete.

### **Weekly Inspection Logs**

I reviewed weekly inspection logs for the CSF, explosive material lab, building 3234, and non-explosive/explosive storage areas for the years 2011 through 2013 and found them to be complete.

I reviewed daily inspection logs for the years 2011 through 2014 at the demolition range which are conducted only when the range is in operation, which is approximately 100 days per year.

I reviewed daily inspection logs for the ammunition burning ground (roll-off box) for the years 2011 through 2013.

CNSWC was unable to provide for review weekly inspection logs for building 3064 (pretreatment plant) at the time of the inspection. I received copies of the weekly inspection logs for the years 2011 through 2013 via email on June 4, 2014.

### **Training Records**

I reviewed hazardous waste training records for Navy and Army personnel for the years 2011 through 2013 and found them to be complete.

I reviewed all of the remaining records (contingency plan, biennial reports for the past 3 years and waste analysis records) and found them to be complete.

### **Visual Site Inspection (VSI) – May 6, 2014**

I was accompanied by Mr. Overton during the RCRA portion of the VSI. The areas of CNSWC inspected included, but were not limited to: building 3435, permitted central storage facility, Sections H through M, general storage area, building 2994, Sections A, B, C, D, F and G and the lot storage area.

The following is a summary of information obtained while touring the plant on May 6, 2014.

- There were approximately twenty-seven hazardous waste containers in Sections H through M of the CSF multi-bay hazardous waste storage area (Photographs 1 through 7). All containers were closed/labeled.
- There were approximately eighty hazardous waste containers in Sections A through G of building 2993 (Photographs 8 through 17). All containers were closed/labeled.
- Exterior Lot Storage Area where hazardous waste solids were being stored, such as, grit blast residue, chromate waste, plastic glass, spent carbon zinc, ash, absorbent pads, plastic bead blast media, fiberglass, and sodium carbonate, universal waste activated/carbon ammonium nitric recovery (Photographs 18 through 19). All containers were labeled and closed. Adequate aisle space was being maintained at all above locations.



- There were closed/labeled waste lamps being stored outdoors next to the exterior lot storage area (Photograph 20).

### **Visual Site Inspection (VSI) – May 7, 2014**

I was accompanied by Messer, Overton, Mitchell and Johnson during the RCRA portion of the VSI. The areas inspected included, but were not limited to: building 118 (Army Plating Shop), building 105 (conversion building), building 104 (Ordinance Renovation Complex), demolition range, repository area, building 2520 (decoy flare assembly), building 3110 (pretreatment), building 3343 (APE 1236 Incinerator/permitted treatment unit), rifle range and ammunition burning ground.

The following is a summary of information obtained while touring the plant on May 7, 2014.

- There were seven 55-gallon satellite accumulation drums of Aluminum Desmut Solution with a filled date of May 2, 2014 and five 55-gallon drums of spent hydrochloric acid with a filled date of May 5, 2014. The above waste was generated from a tank clean out. One 55-gallon drum of Aldokota Solution was dated May 5, 2014. One 55-gallon drum of zinc filters from the plating bath and one 5-gallon container of hydrochloric acid w/filter were also being stored. Weekly inspection were documented and conducted on May 2 and May 7, 2014 on the drums until transferred to the less than 90 day storage area on May 8, 2014 (Photographs 21 through 24).
- There was one closed/labeled 1-cubic yard tote bag of activated carbon in building 105 (Photograph 25).
- There was one closed/labeled 55-gallon satellite accumulation container of paint/thinner and one 55-gallon drum of paint filters in building 104 (Photographs 26 and 27).
- There were closed/labeled waste lamps and waste batteries in the respiratory area. I also observed one unlabeled 55-gallon drum of used oil being stored in a cornex box (shed type structure) Photographs 28 through 38.
- There were 15 unlabeled hazardous waste containers ranging in size from 55-gallons, 5-gallons and 3-gallons. There was also one unlabeled red 500-gallon tank in the respiratory area. Waste determination had not been performed on any of waste in those containers and tank (Photographs 39 through 41).
- There was one closed/labeled 55-gallon satellite accumulation container of used isopropanol in a flammable storage cabinet in building 2520 (Photograph 42).
- There was one closed/labeled 55-gallon satellite accumulation container of hazardous waste baghouse dust and one 55-gallon satellite accumulation container of cyclone separator residue outside of building 3343 (Photographs 43 and 44) .

- There was one closed/labeled 55-gallon satellite accumulation drum of explosive contaminated solvent and one emptied roll-off box at the Ammunition Burning Ground (Photographs 45 and 46).

#### **Visual Site Inspection (VSI) – May 8, 2014**

I was accompanied by Ms. Freeman, Mr. Overton, Mr. Been during the RCRA portion of the VSI. The areas inspected included, but were not limited to: building 3234 (90 day storage) decontamination change room, Site A, C, D and E, building 3287 (pretreatment), clean room, sublab, building 2713 (transportation), 3064, 198 and 2702.

The following is a summary of information obtained while touring the plant on May 8, 2014

- There was one closed/labeled 55-gallon satellite accumulation drum of paint thinner and one 55-gallon drum of contaminated PPE in building 3234 (Photographs 47 and 48).
- There was one closed/labeled 30-gallon container of used aerosol in building 3234-Site A (Photograph 49).
- There was one closed/labeled 55-gallon container of chromium/cadmium sludge on the conversion coating line (Photograph 50).
- There were three closed/labeled 55-gallon hazardous waste drums of plastic bead media building 3234-Site C less than 90-day hazardous waste storage area (Photograph 51).
- There were five closed/labeled 55-gallon drums of spent media waste in building 3234-Site E-satellite accumulation area (Photograph 52).
- There was one labeled 1,000-gallon used oil tank, one opened/unlabeled 55-gallon container of used crushed oil filters, one unlabeled 3-gallon container of used oil in building 2713. The 55-gallon container of crushed used oil filters and 3-gallon container of use oil were immediately labeled (Photographs 53 through 55).
- There was one opened 55-gallon satellite accumulation container of filters with zinc in building 3064 (pretreatment). The funnel cover was not latched or locked closed (Photograph 56).
- There was one closed/labeled 55-gallon satellite accumulation drum of hexane/acetone solvent waste in building 198 non-explosive hazardous waste storage area (Photograph 57).
- There was one closed/labeled 55-gallon drum of contaminated waste rags, one 55-gallon container of flare comp. and one 15-gallon container of assembled compounds, subassembly w/explosives in the explosive hazardous waste storage area (Photographs 58 and 59).

- Photos of explosive material media lab and outdoor explosive hazardous waste storage (Photographs 60 through 62).
- Photos of flash pit and rifle range pit (Photographs 63 and 64).

In walking through the CNSWC facility, I observed the presence of fire extinguishers and eye wash stations throughout.

### **Closing Conference**

In closing, a brief exit conference was held. I summarized where Mr. Overton and others had taken me during the VSI and what information was presented to me. I summarized where I had been taken during the RCRA portion of the VSI and what information Mr. Overton presented to me. I thanked everyone in attendance for their cooperation and concluded my CEI at approximately 5:30 p.m.

### **Attachments**

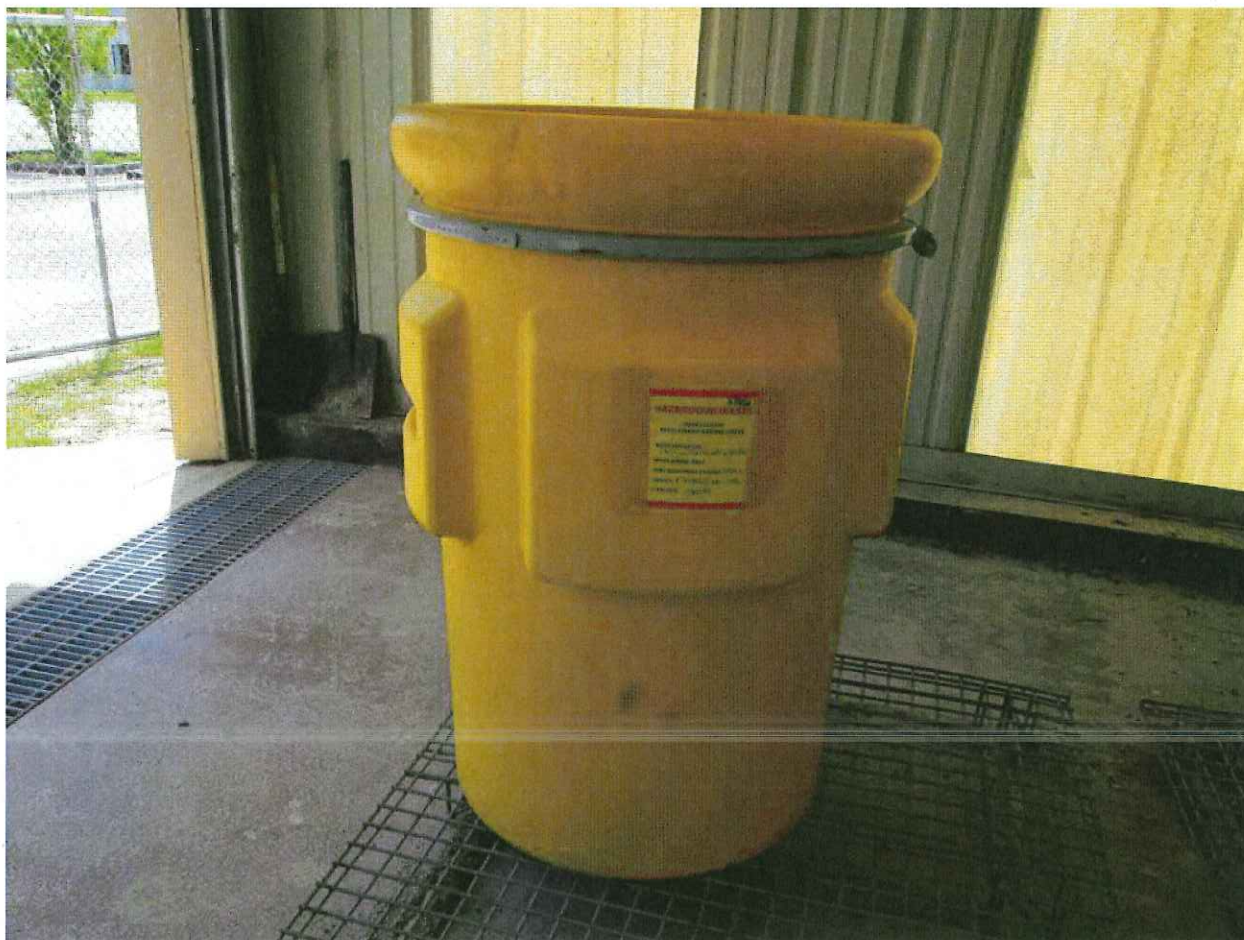
Photographs 1 through 64





**PHOTOGRAPH #1**

NAME OF PHOTOGRAPHER:	Sheila Burrus
DATE OF PHOTOGRAPH:	May 6, 2014
LOCATION OF PHOTOGRAPH:	Central Storage Facility/Section H
SCENE BEING PHOTOGRAPHED:	55-gallon container of filter/5-gallon container of lead
SITE LOCATION:	300 Highway 361 Crane, Indiana
INSTALLATION NAME:	Crane Naval Surface Warfare Center
INSTALLATION I.D. #	IN5 170 023 498



PHOTOGRAPH #2

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 6, 2014

LOCATION OF PHOTOGRAPH:

Central Storage Facility/Section H

SCENE BEING PHOTOGRAPHED:

deteriorated 55-gallon drum of calcium carbonated  
water stored inside 80-gallon drum

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





**PHOTOGRAPH #3**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Central Storage Facility/Section J

**SCENE BEING PHOTOGRAPHED:**

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Naval Surface Warfare Center, Crane Division

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #4**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Central Storage Facility/Section K

**SCENE BEING PHOTOGRAPHED:**

55-gallon drums of used coolant, paint filters, used castor oil and coolant

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





**PHOTOGRAPH #5**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Central Storage Facility/Section L

**SCENE BEING PHOTOGRAPHED:**

eleven 55-gallon drums of paint related materials and  
one 55-gallon drum of off-spec. waste

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #6**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Central Storage Facility/Section M

**SCENE BEING PHOTOGRAPHED:**

three 55-gallon drums of perchlorate and one 55-gallon drum of potassium perchlorate

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





**PHOTOGRAPH #7**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

General Storage Area-Across from CSF

**SCENE BEING PHOTOGRAPHED:**

spill equipment, emptied containers and pallets

**SITE LOCATION:**

300 Highway 361

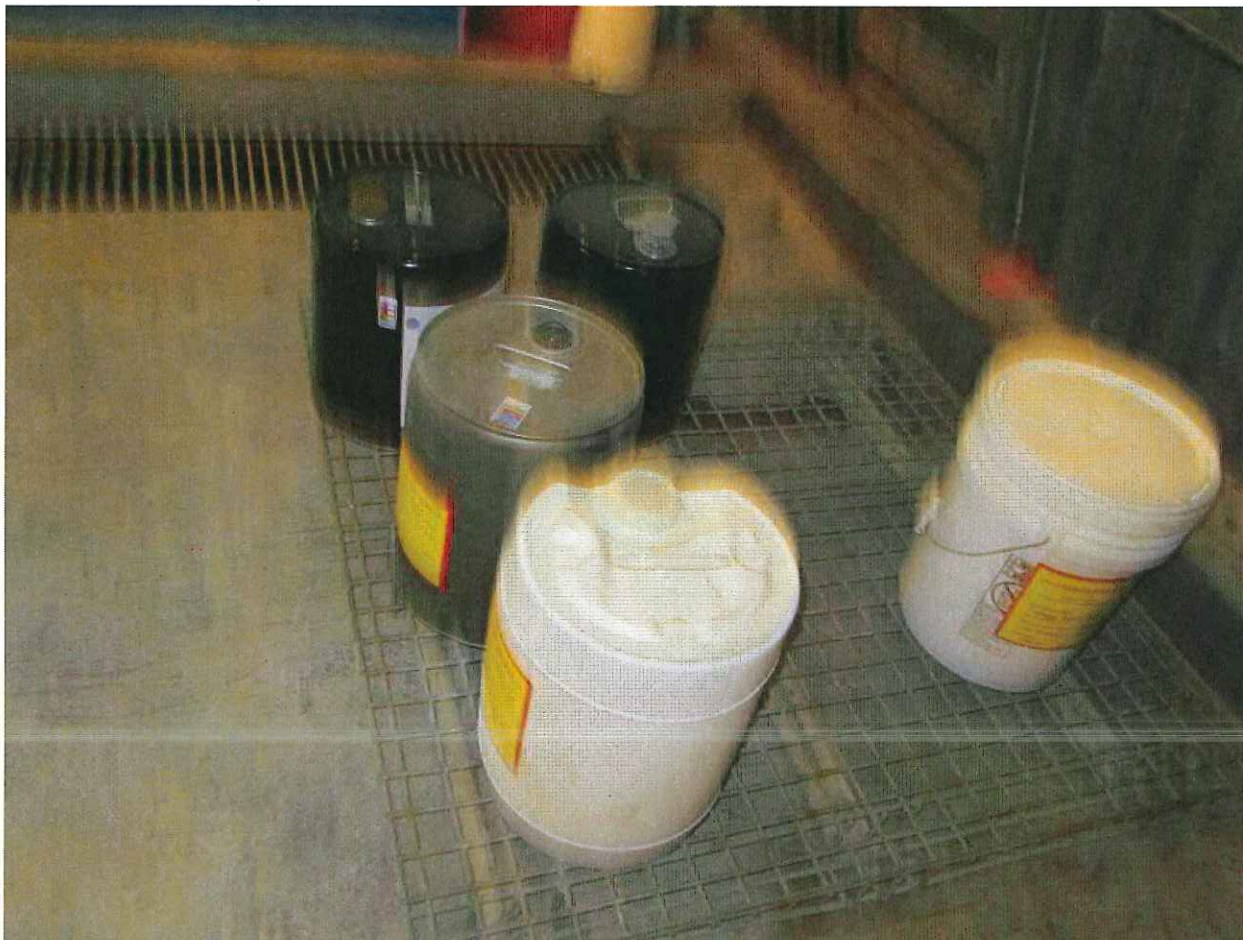
Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #8**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2993 – Section A

**SCENE BEING PHOTOGRAPHED:**

five 5-gallon containers of ignitable liquids

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





**PHOTOGRAPH #9**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2993 – Section A

**SCENE BEING PHOTOGRAPHED:**

containers of scrap magnesium, zinc chromate, propane cylinder, paint chips, and lead debris

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



PHOTOGRAPH #10

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 6, 2014

LOCATION OF PHOTOGRAPH:

Building 2993 – Section A

SITE LOCATION:

300 Highway 361

Crane, Indiana

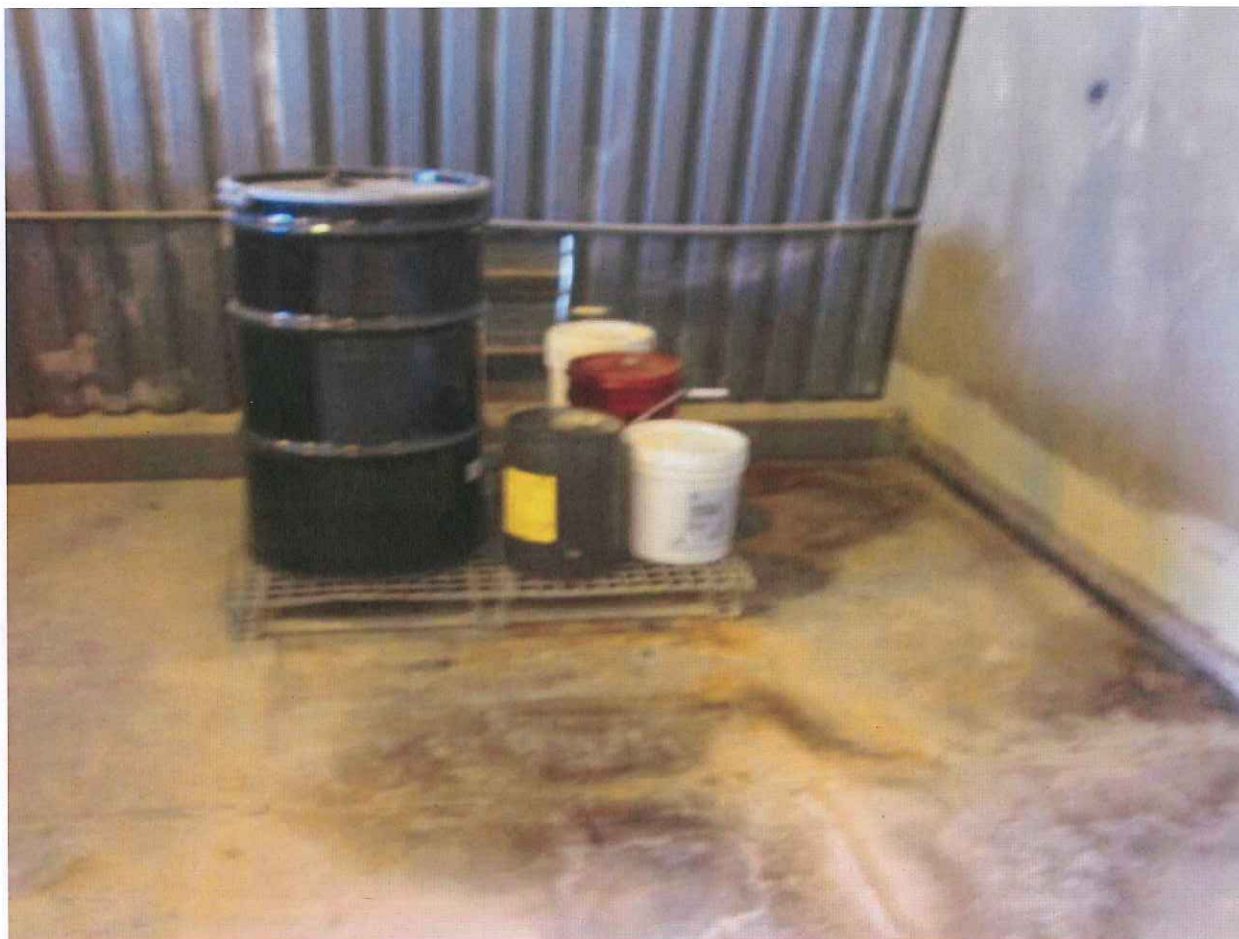
INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





**PHOTOGRAPH #11**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2993 – Section A

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #12**

<b>NAME OF PHOTOGRAPHER:</b>	Sheila Burrus
<b>DATE OF PHOTOGRAPH:</b>	May 6, 2014
<b>LOCATION OF PHOTOGRAPH:</b>	Building 2993 – Section B
<b>SCENE BEING PHOTOGRAPHED:</b>	55-gallon containers of corrosive waste
<b>SITE LOCATION:</b>	300 Highway 361 Crane, Indiana
<b>INSTALLATION NAME:</b>	Crane Naval Surface Warfare Center
<b>INSTALLATION I.D. #</b>	IN5 170 023 498





**PHOTOGRAPH #13**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2993 – Section C

**SCENE BEING PHOTOGRAPHED:**

55-gallon drums of corrosive waste

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #14**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2993 – Section D

**SCENE BEING PHOTOGRAPHED:**

containers of corrosive waste acids

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





**PHOTOGRAPH #15**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2993 – Section F

**SCENE BEING PHOTOGRAPHED:**

containers of zinc plating waste

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #16**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2993 – Section F

**SCENE BEING PHOTOGRAPHED:**

containers of plating waste, photo chem. and developer waste

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





**PHOTOGRAPH #17**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**SCENE BEING PHOTOGRAPHED:**

containers of aerosol cans, paint thinner and off-spec.  
gasoline

**LOCATION OF PHOTOGRAPH:**

Building 2993 – Section F

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #18**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

outside lot storage area

**SCENE BEING PHOTOGRAPHED:**

exterior lot storage area for solid waste (i.e., chromate waste, grit blast residue, etc.)

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





**PHOTOGRAPH #19**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 6, 2014

**LOCATION OF PHOTOGRAPH:**

exterior lot storage area for solid waste

**SCENE BEING PHOTOGRAPHED:**

1 cubic yard tote bags of activated/carbon ammonium  
nitric recovery

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



PHOTOGRAPH #20

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 6, 2014

LOCATION OF PHOTOGRAPH:

exterior lot storage area

SCENE BEING PHOTOGRAPHED:

Universal Waste Lamps

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





PHOTOGRAPH #21

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Army Plating Shop

SCENE BEING PHOTOGRAPHED:

seven 55-gallon satellite accumulation containers of  
Alumium Desmuk Solution waste

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



PHOTOGRAPH #22

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Army Plating Shop

SCENE BEING PHOTOGRAPHED:

seven 55-gallon satellite accumulation containers of  
Alumium Desmuk Solution waste

SITE LOCATION:

300 Highway 361  
Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





PHOTOGRAPH #23

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Army Plating Shop

SCENE BEING PHOTOGRAPHED:

seven 55-gallon satellite accumulation containers of  
Alumium Desmuk Solution waste

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



PHOTOGRAPH #24

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Army Plating Shop

SCENE BEING PHOTOGRAPHED:

seven 55-gallon satellite accumulation containers of  
Alumium Desmuk Solution waste

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





PHOTOGRAPH #25

NAME OF PHOTOGRAPHER:	Sheila Burrus
DATE OF PHOTOGRAPH:	May 7, 2014
LOCATION OF PHOTOGRAPH:	Building 105
SCENE BEING PHOTOGRAPHED:	one cubic yard tote of activated carbon
SITE LOCATION:	300 Highway 361 Crane, Indiana
INSTALLATION NAME:	Crane Naval Surface Warfare Center
INSTALLATION I.D. #	IN5 170 023 498



PHOTOGRAPH #26

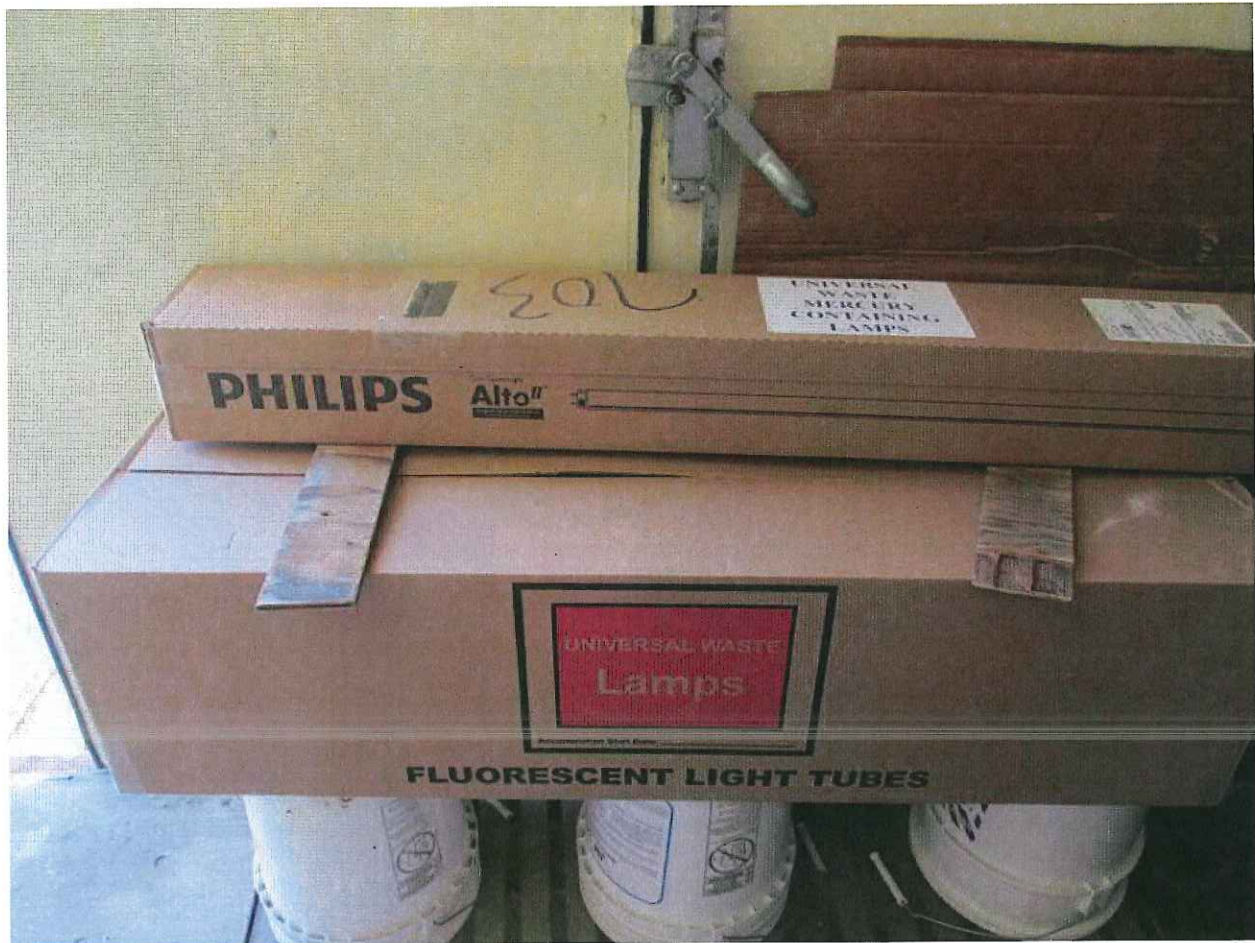
NAME OF PHOTOGRAPHER:	Sheila Burrus
DATE OF PHOTOGRAPH:	May 7, 2014
LOCATION OF PHOTOGRAPH:	Building 104
SCENE BEING PHOTOGRAPHED:	55-gallon container of paint thinner
SITE LOCATION:	300 Highway 361 Crane, Indiana
INSTALLATION NAME:	Crane Naval Surface Warfare Center
INSTALLATION I.D. #	IN5 170 023 498





**PHOTOGRAPH #27**

<b>NAME OF PHOTOGRAPHER:</b>	Sheila Burrus
<b>DATE OF PHOTOGRAPH:</b>	May 7, 2014
<b>LOCATION OF PHOTOGRAPH:</b>	Building 104 (Abrasive Blasting)
<b>SCENE BEING PHOTOGRAPHED:</b>	Paint Filters
<b>SITE LOCATION:</b>	300 Highway 361 Crane, Indiana
<b>INSTALLATION NAME:</b>	Crane Naval Surface Warfare Center
<b>INSTALLATION I.D. #</b>	IN5 170 023 498



PHOTOGRAPH #28

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Repository

SCENE BEING PHOTOGRAPHED:

waste lamps

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





**PHOTOGRAPH #29**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 7, 2014

**LOCATION OF PHOTOGRAPH:**

Repository

**SCENE BEING PHOTOGRAPHED:**

waste lamps

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center



PHOTOGRAPH #30

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Respository

SCENE BEING PHOTOGRAPHED:

waste lamps

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





PHOTOGRAPH #31

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Repository

SCENE BEING PHOTOGRAPHED:

waste battery storage

SITE LOCATION:

300 Highway 361

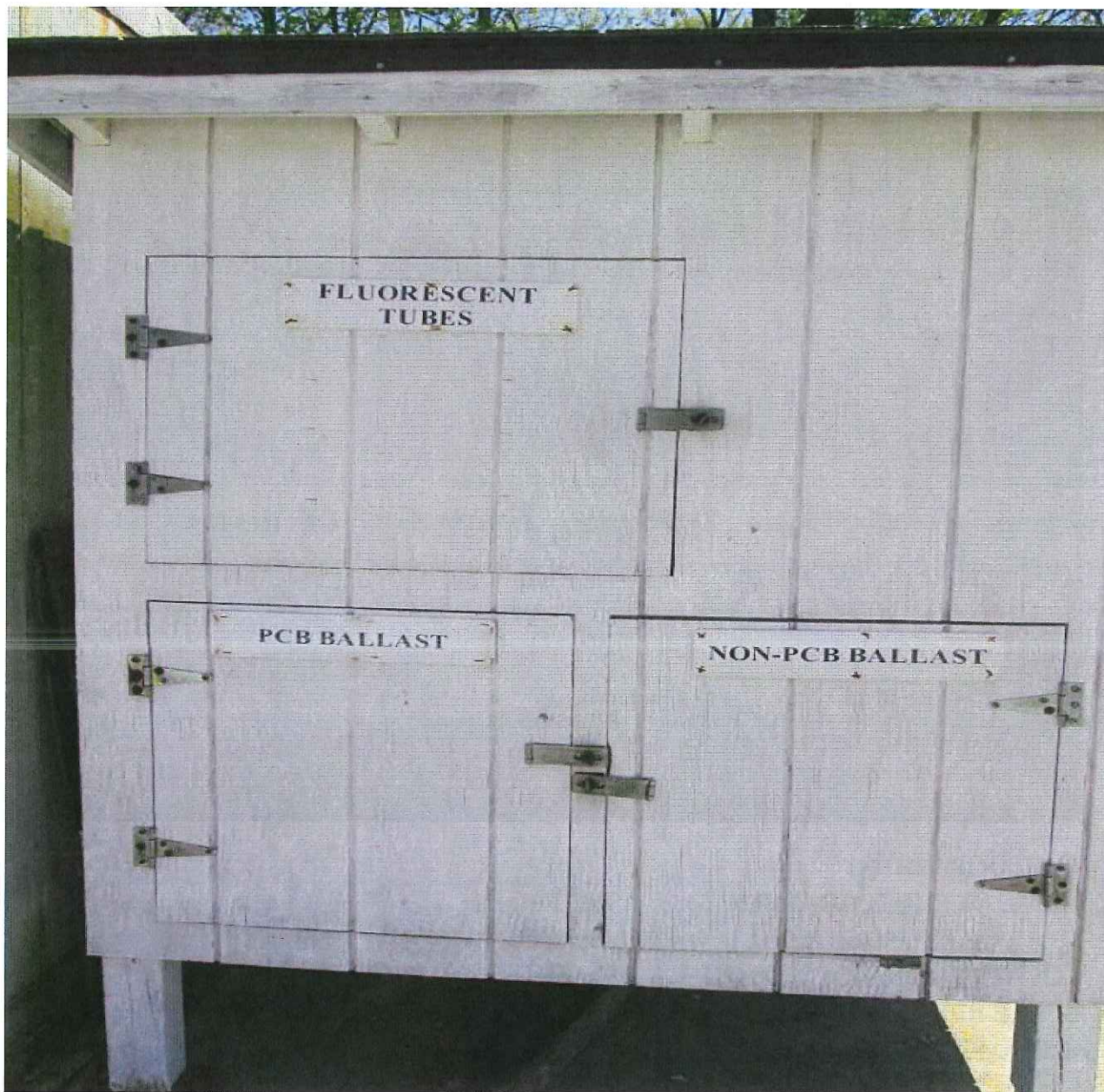
Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



PHOTOGRAPH #32

NAME OF PHOTOGRAPHER:	Sheila Burrus
DATE OF PHOTOGRAPH:	May 7, 2014
LOCATION OF PHOTOGRAPH:	Repository
SCENE BEING PHOTOGRAPHED:	universal waste storage shed
SITE LOCATION:	300 Highway 361 Crane, Indiana
INSTALLATION NAME:	Crane Naval Surface Warfare Center
INSTALLATION I.D. #	IN5 170 023 498





**PHOTOGRAPH #33**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 7, 2014

**LOCATION OF PHOTOGRAPH:**

near to building 104

**SCENE BEING PHOTOGRAPHED:**

emptied 90-day storage container

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



PHOTOGRAPH #34

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Repository

SCENE BEING PHOTOGRAPHED:

waste oil storage

SITE LOCATION:

300 Highway 361

Crane, Indiana

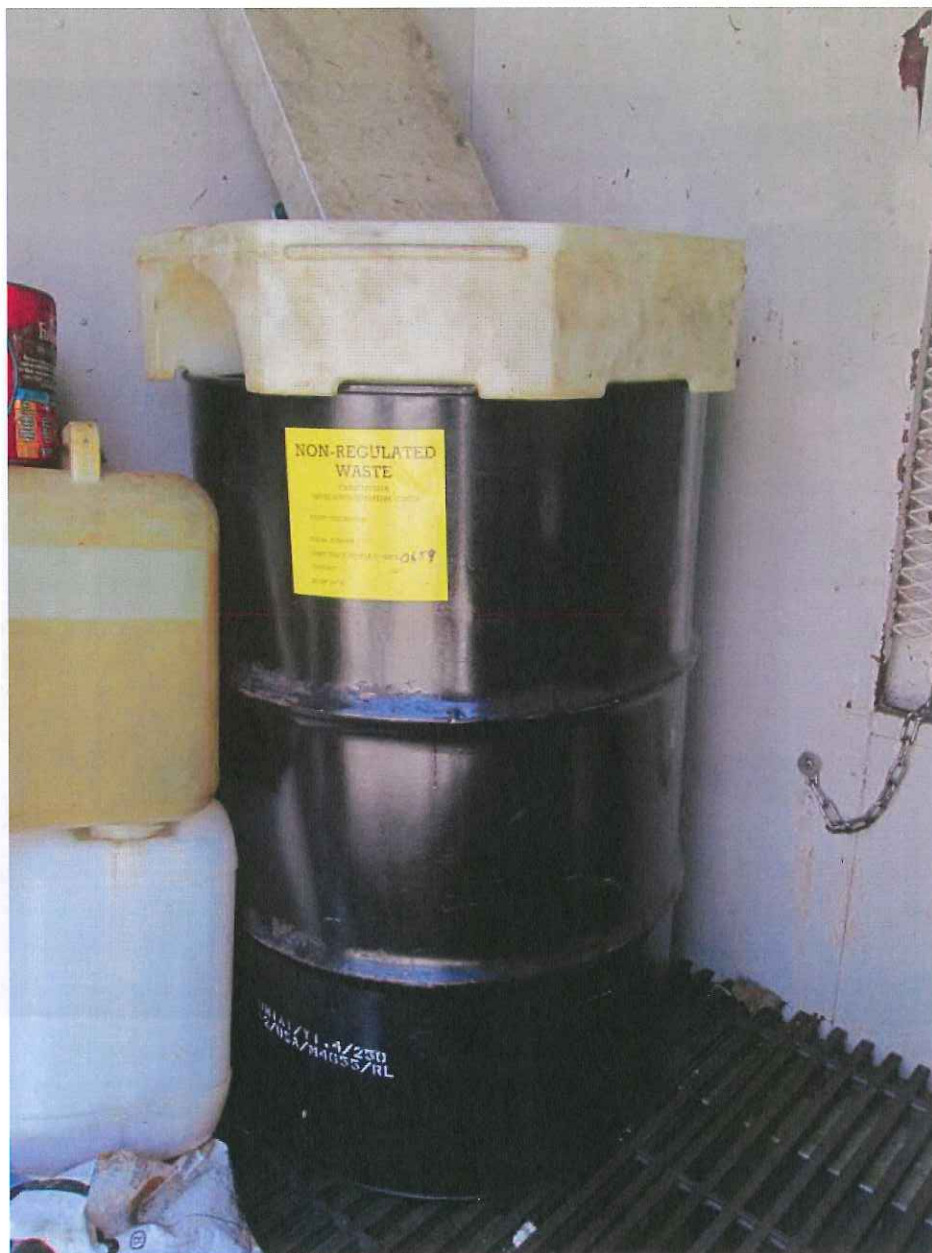
INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





**PHOTOGRAPH #35**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 7, 2014

**LOCATION OF PHOTOGRAPH:**

Repository

**SCENE BEING PHOTOGRAPHED:**

55-gallon used oil drum without the words, "Used Oil"

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



PHOTOGRAPH #36

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Repository

SCENE BEING PHOTOGRAPHED:

storage of lead acid batteries

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





PHOTOGRAPH #37

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Repository

SCENE BEING PHOTOGRAPHED:

closed/labeled waste batteries

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



PHOTOGRAPH #38

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Repository

SCENE BEING PHOTOGRAPHED:

small battery storage

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





**PHOTOGRAPH #39**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 7, 2014

**LOCATION OF PHOTOGRAPH:**

repository area

**SCENE BEING PHOTOGRAPHED:**

unidentified waste containers

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #40**

<b>NAME OF PHOTOGRAPHER:</b>	Sheila Burrus
<b>DATE OF PHOTOGRAPH:</b>	May 7, 2014
<b>LOCATION OF PHOTOGRAPH:</b>	Repository Area
<b>SCENE BEING PHOTOGRAPHED:</b>	unidentified waste containers
<b>SITE LOCATION:</b>	300 Highway 361 Crane, Indiana
<b>INSTALLATION NAME:</b>	Crane Naval Surface Warfare Center
<b>INSTALLATION I.D. #</b>	IN5 170 023 498





PHOTOGRAPH #41

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Repository Area

SCENE BEING PHOTOGRAPHED:

unidentified 500-gallon tank

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



**PHOTOGRAPH #42**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 7, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2520 9 (Decoy Flare Assembly)

**SCENE BEING PHOTOGRAPHED:**

55-gallon container of used isopropanol

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center





PHOTOGRAPH #43

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Building 3343 (1236 Incinerator)

SCENE BEING PHOTOGRAPHED:

closed/labeled 55-gallon satellite accumulation drum of  
baghouse residue

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



PHOTOGRAPH #44

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

Building 3343 (APE 1236 Incinerator)

SCENE BEING PHOTOGRAPHED:

closed/labeled 55-gallon satellite accumulation of  
cyclone separator residue

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





**PHOTOGRAPH #45**

<b>NAME OF PHOTOGRAPHER:</b>	Sheila Burrus
<b>DATE OF PHOTOGRAPH:</b>	May 7, 2014
<b>LOCATION OF PHOTOGRAPH:</b>	Ammunition Burning Ground
<b>SCENE BEING PHOTOGRAPHED:</b>	55-gallon drum of Thermal Treated Solvent Ash
<b>SITE LOCATION:</b>	300 Highway 361 Crane, Indiana
<b>INSTALLATION NAME:</b>	Crane Naval Surface Warfare Center
<b>INSTALLATION I.D. #</b>	IN5 170 023 498





**PHOTOGRAPH #46**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 7, 2014

**LOCATION OF PHOTOGRAPH:**

Ammunition Burning Ground

**SCENE BEING PHOTOGRAPHED:**

emptied hazardous waste roll-off box

**SITE LOCATION:**

300 Highway 361

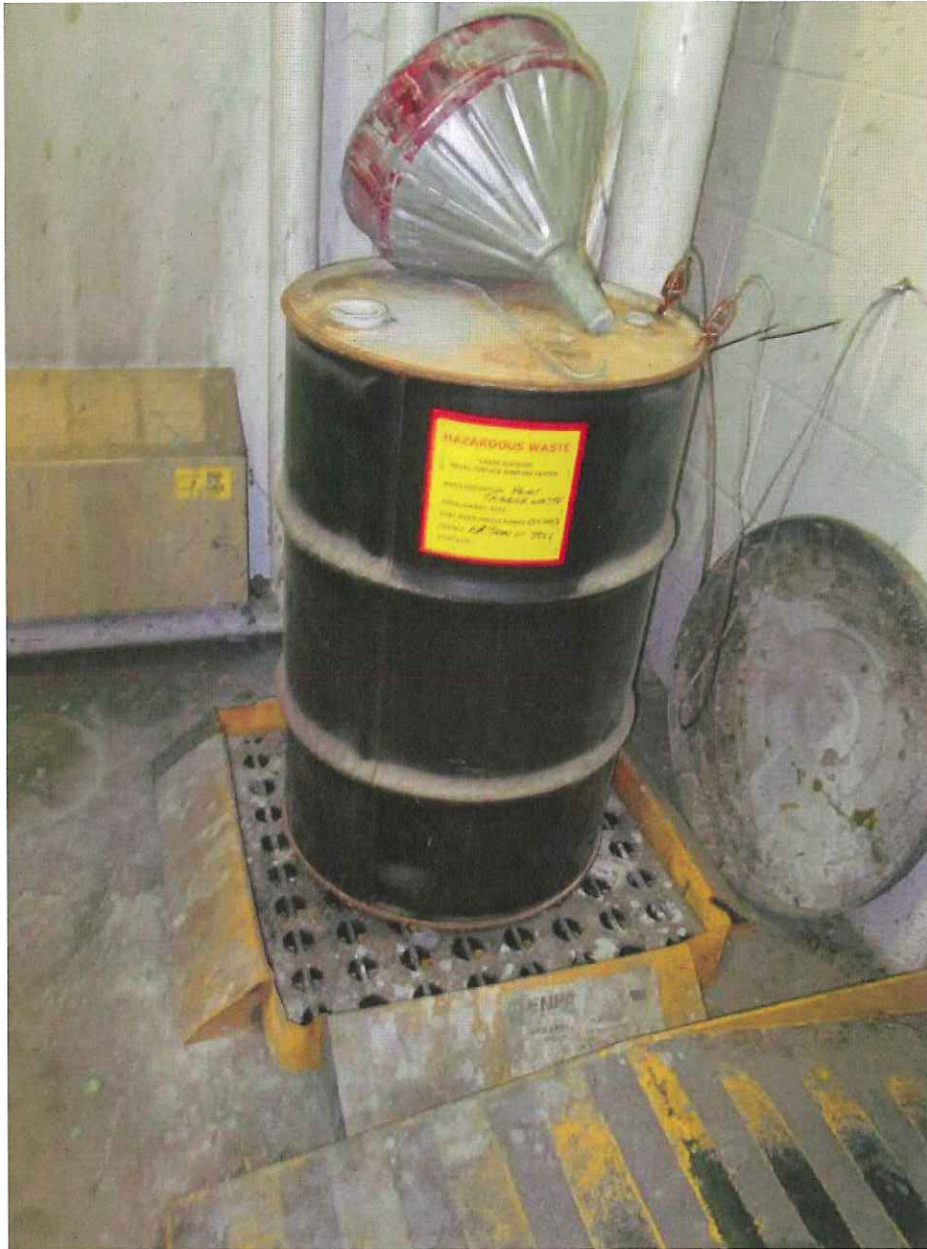
Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #47**

NAME OF PHOTOGRAPHER:	Sheila Burrus
DATE OF PHOTOGRAPH:	May 8, 2014
LOCATION OF PHOTOGRAPH:	Building 3234-Site A
SCENE BEING PHOTOGRAPHED:	30-gallon drum of paint thinner
SITE LOCATION:	300 Highway 361 Crane, Indiana
INSTALLATION NAME:	Crane Naval Surface Warfare Center
INSTALLATION I.D. #	IN5 170 023 498







**PHOTOGRAPH #49**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 8, 2014

**LOCATION OF PHOTOGRAPH:**

Building 3234 – Site A

**SCENE BEING PHOTOGRAPHED:**

30-gallon container of used aerosol cans

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

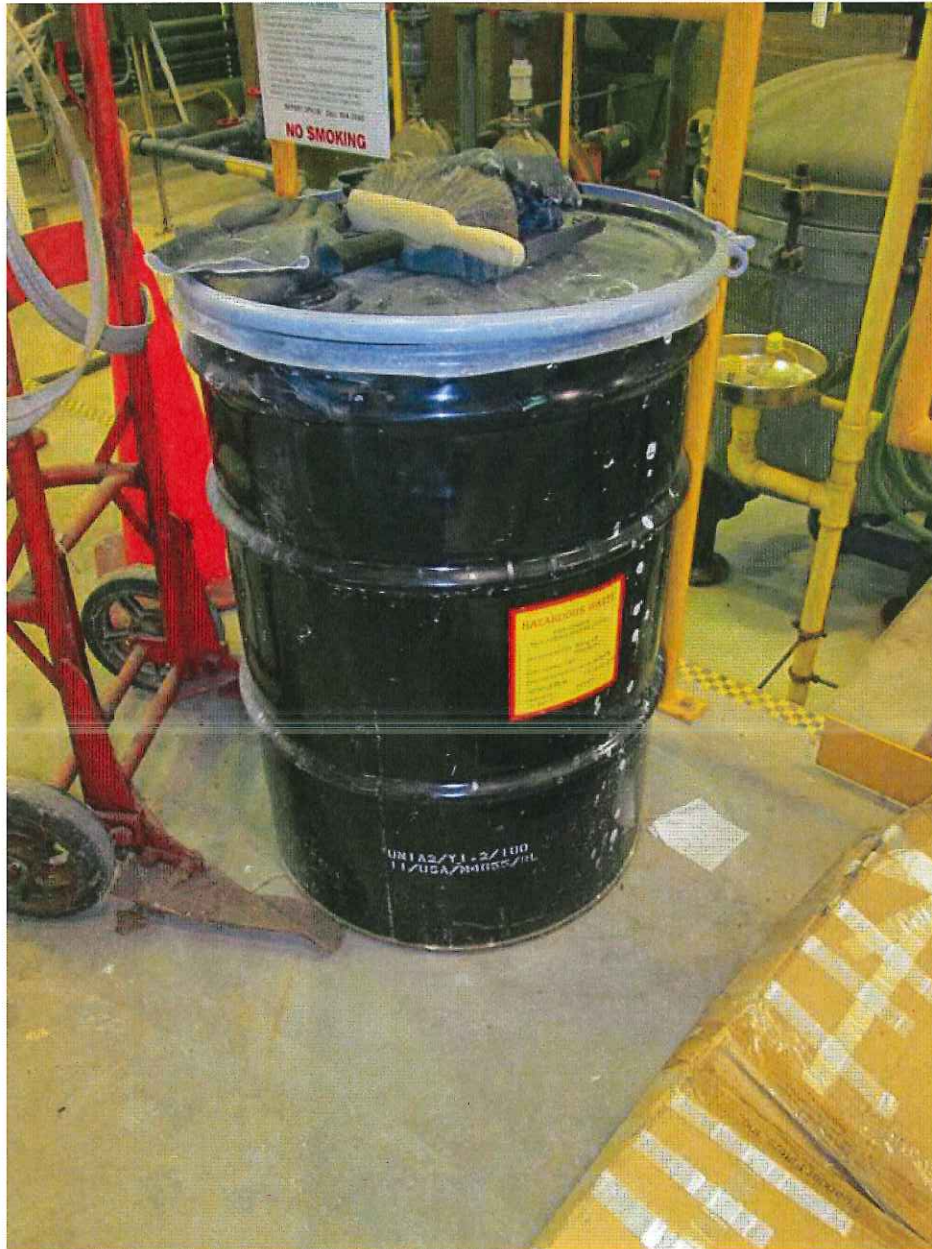
**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





**PHOTOGRAPH #50**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 8, 2014

**LOCATION OF PHOTOGRAPH:**

Building 3234 (conversion coating line)

**SCENE BEING PHOTOGRAPHED:**

55-gallon drum of chromium/cadium sludge

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





PHOTOGRAPH #51

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 8, 2014

LOCATION OF PHOTOGRAPH:

Building 3234 – Site C

SCENE BEING PHOTOGRAPHED:

three 55-gallon drums of plastic bead blast media

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



**PHOTOGRAPH #52**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 8, 2014

**LOCATION OF PHOTOGRAPH:**

Building 3234 – Site E

**SCENE BEING PHOTOGRAPHED:**

55-gallon Media Waste

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

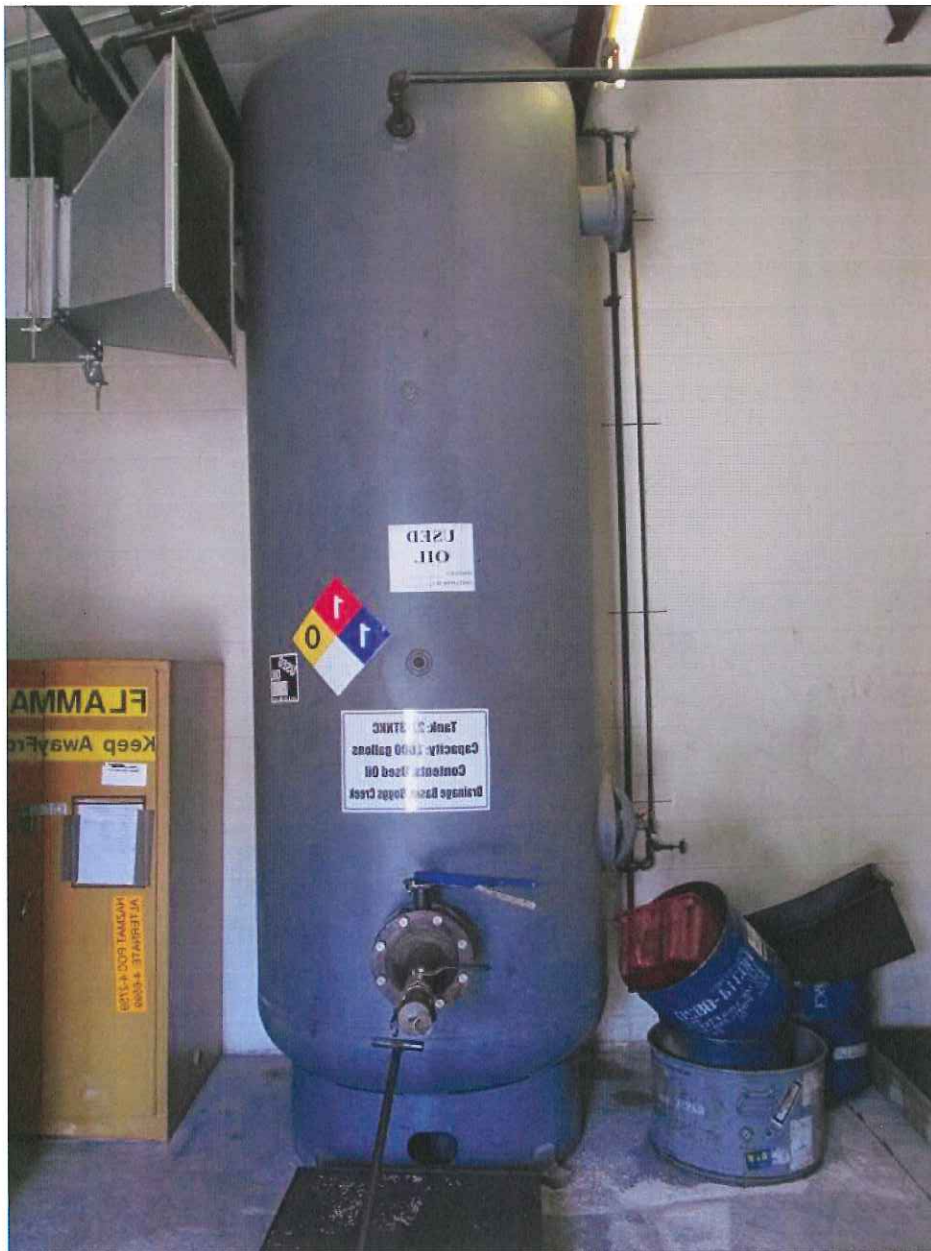
**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





PHOTOGRAPH #53

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 8, 2014

LOCATION OF PHOTOGRAPH:

Building 2713 (Transportation)

SCENE BEING PHOTOGRAPHED:

labeled 1,000-gallon used oil tank

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





PHOTOGRAPH #54

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 8, 2014

LOCATION OF PHOTOGRAPH:

Building 2713 – Transportation

SCENE BEING PHOTOGRAPHED:

opened/unlabeled 55-gallon drum of used crushed oil  
filters/3-gallon unlabeled container of used oil

SITE LOCATION:

300 Highway 361

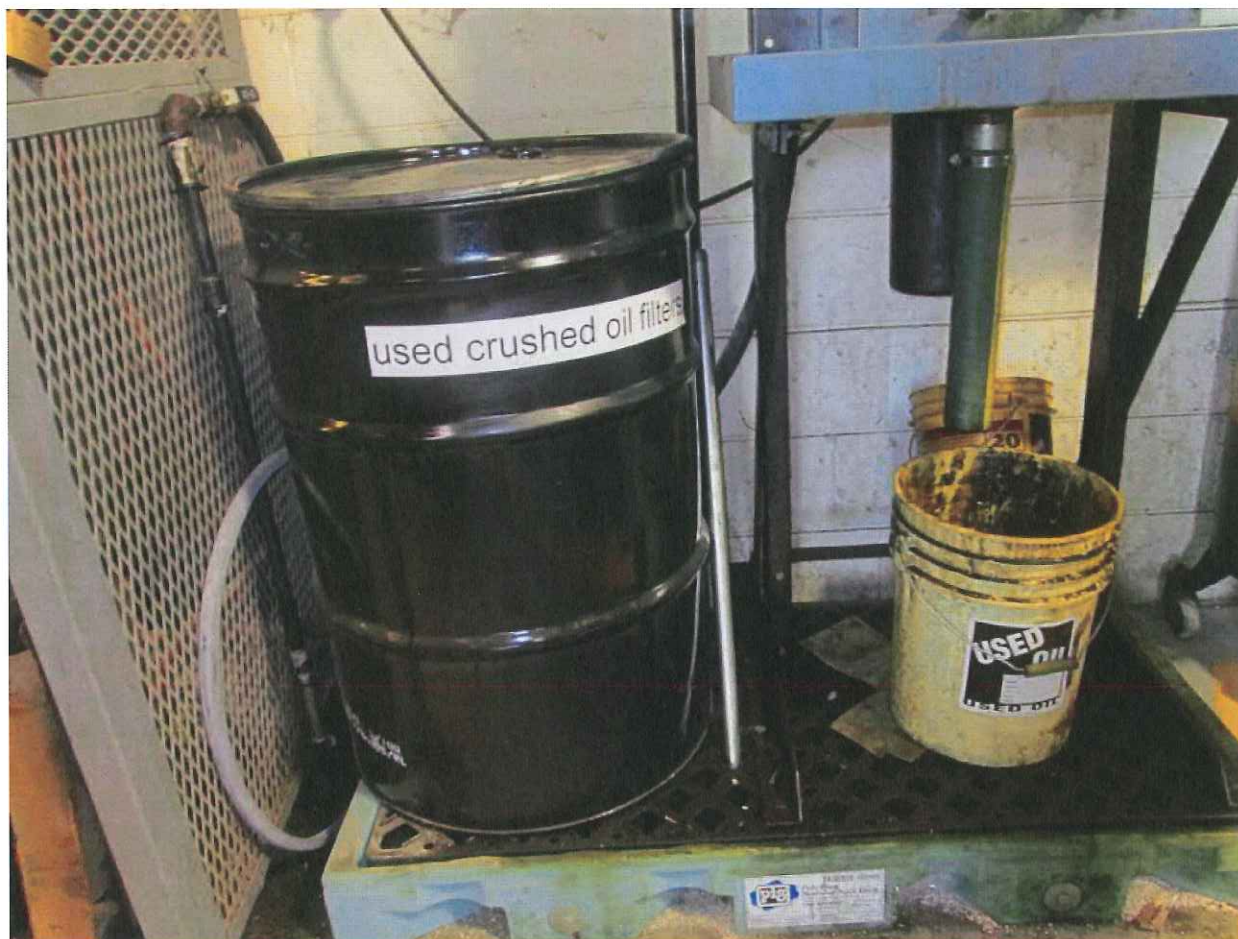
Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



**PHOTOGRAPH #55**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 8, 2014

**LOCATION OF PHOTOGRAPH:**

Building 2713 (Transportation)

**SCENE BEING PHOTOGRAPHED:**

labeled 55-gallon used crushed oil filters

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498









**PHOTOGRAPH #57**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 8, 2014

**LOCATION OF PHOTOGRAPH:**

Building 198 (non-explosive storage area)

**SCENE BEING PHOTOGRAPHED:**

55-gallon of hexane/acetone solvent

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



**PHOTOGRAPH #58**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 8, 2014

**LOCATION OF PHOTOGRAPH:**

Building 198 (explosive hazardous waste storage)

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498





PHOTOGRAPH #59

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 8, 2014

LOCATION OF PHOTOGRAPH:

Building 198 (explosive hazardous waste storage)

SCENE BEING PHOTOGRAPHED:

55-gallon contaminated rags, flare comp, smoke comp, and assembled compounds

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





PHOTOGRAPH #60

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 8, 2014

LOCATION OF PHOTOGRAPH:

Building 2702 (Explosive Material Analyst Lab)

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498



PHOTOGRAPH #61

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 8, 2014

LOCATION OF PHOTOGRAPH:

Building 2702 (Explosive Material Analyst Lab)

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





PHOTOGRAPH #62

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 8, 2014

LOCATION OF PHOTOGRAPH:

Outdoor PEP Locker

SCENE BEING PHOTOGRAPHED:

ethyl acetate, spent flare composition, contaminated  
and wipes

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498





**PHOTOGRAPH #63**

**NAME OF PHOTOGRAPHER:**

Sheila Burrus

**DATE OF PHOTOGRAPH:**

May 7, 2014

**LOCATION OF PHOTOGRAPH:**

View of Rifle Range Pits

**SITE LOCATION:**

300 Highway 361

Crane, Indiana

**INSTALLATION NAME:**

Crane Naval Surface Warfare Center

**INSTALLATION I.D. #**

IN5 170 023 498



PHOTOGRAPH #64

NAME OF PHOTOGRAPHER:

Sheila Burrus

DATE OF PHOTOGRAPH:

May 7, 2014

LOCATION OF PHOTOGRAPH:

view of flash pits

SITE LOCATION:

300 Highway 361

Crane, Indiana

INSTALLATION NAME:

Crane Naval Surface Warfare Center

INSTALLATION I.D. #

IN5 170 023 498